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P O BOX 272	2400, 3404 E. HARMON UAL PROPERTY ADM	Y ROAD	ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

- 141 - 141	Application No.	Applicant(s)	
9	09/912,784	JEANSONNE E	T AL.
Office Action Summary	Examiner	Art Unit	
	Julian Chang	2152	
The MAILING DATE of this communica	tion appears on the cover sheet	with the correspondence	address
m to disa Danki			
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAIN Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this community. If NO period for reply is specified above, the maximum statuth. Failure to reply within the set or extended period for reply will Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	TO CFR 1.136(a). In no event, however, may cation. ony period will apply and will expire SIX (6) N	a reply be timely filed ONTHS from the mailing date of the ARANDONED (35 U.S.C. § 133).	is communication.
Status			
1) Responsive to communication(s) filed	on <u>24 April 2006</u> .		
2h	\□l This action is non-final.	ottore prosecution as to	the merits is
as Condition for	r allowance except for formal m	ialiers, prosecution as to C.D. 11, 453 O.G. 213.	
closed in accordance with the practice	under Ex parte Quayle, 1935 (J.D. 11, 400 0.0. 2 to	
Disposition of Claims			
4) Claim(s) 17-34 and 36-55 is/are pend	ing in the application.	•	
4a) Of the above claim(s) is/are	withdrawn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>17-34 and 36-55</u> is/are reject	ted.		
7) Claim(s) is/are objected to.	on and/or election requirement		
8) Claim(s) are subject to restrict	on and/or election requirement		,
Application Papers			
9) The specification is objected to by the	Examiner.	d to by the Everniner	
is/are	a) accepted or b) objected	ovance See 37 CFR 1.85	(a).
Applicant may not request that any object	tion to the drawing(s) be need in ab	wing(s) is objected to. See	37 CFR 1.121(d).
Applicant may not request that any object Replacement drawing sheet(s) including 11) The oath or declaration is objected to	the correction is required in the dra	ched Office Action or for	m PTO-152.
11) The oath or declaration is objected to	by the Examiner. Note the atta		
Priority under 35 U.S.C. § 119		440() (D 40	
12) Acknowledgment is made of a claim	for foreign priority under 35 U.S	(i.C. § 119(a)-(d) or (t).	
a)☐ All b)☐ Some * c)☐ None of:			
1. ☐ Certified copies of the priority	documents have been received	i. Lin Application No.	
2. Certified copies of the priority3. Copies of the certified copies	documents have been received	been received in this Na	 tional Stage
3. Copies of the certified copies	nal Bureau (PCT Rule 17.2(a))		
* See the attached detailed Office action	n for a list of the certified copie	s not received.	
* See the attached detailed Office action	in the witter of the second		
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Attachment(s)	4) 🗍 Inte	rview Summary (PTO-413)	
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	er No(s)/Mail Date ice of Informal Patent Applicat	ion (PTO-152)
3) Information Disclosure Statement(s) (PTO-1449 o	r PTO/SB/08) 5) ☐ Not 6) ☐ Oth	er:	
Paper No(s)/Mail Date			

computing needs of the system);

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DETAILED ACTION

1. This Office action is responsive to communication on 04/24/06. Claims 17-34, and 36-55 are pending, and have been rejected as below.

Claim Rejections - 35 USC § 103

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claims 17, 21, 24-30, 32, 34, 36-38, 40, 44-50, and 53-55 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant Admitted Related Art (AARA), in view of Ishigaki et al. (hereinafter Ishigaki), US 6,448,927.
- 4. As per claim 17, AARA teaches a computer system comprising: a main system processor (AARA, pg 2-3, [0007-0008], notebook computer.
 Notebook computers inherently have a main system processor in order to perform the

a system main memory coupled to the processor (AARA, pg 2-3, [0007-0008], notebook computer. Notebook computers inherently have a main memory coupled to the main processor in order to perform the computing needs of the system);

a radio module that scans for available wireless access points which support twoway data communications (AARA, pg 2, [0005-0006], where base station radio unit transmit/receives data to and from computer system's radio unit);

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a power supply coupled to the radio module and the main system processor (AARA, pg 2-3, [0007-0008], scanning while powered on);

AARA does not explicitly say an electrical switch mounted on an external surface of the computer system; and

a seek logic coupled to the electrical switch and the power supply
wherein the seek logic is configured to commands the power supply to power the
radio module responsive to the actuation of the electrical switch

wherein the radio module scans for available wireless access points, and indicates the availability of a wireless access point, both while the computer system is powered-off.

However, Ishigaki teaches an electrical switch mounted on an external surface of the computer system (Ishigaki, item 3b on Fig 2, wherein the button constitutes a switch); and

a seek logic coupled to the electrical switch and the power supply (Ishigaki, Fig 2, item 1 and 2);

wherein the seek logic is configured to commands the power supply to power the radio module responsive to the actuation of the electrical switch (Ishigaki, see for example, Col. 4, lines 1-15), and

wherein the radio module scans for available wireless access points (Ishigaki, Col. 4, lines 9-10), and indicates the availability of a wireless access point (Ishigaki, Col. 4, lines 10-15), both while the computer system is powered-off (Ishigaki, the mobile device is in a low powered state, Col. 4, lines 50-65).

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It would have been obvious to the person of ordinary skill in the art at the time of the invention to incorporate Ishigaki with AARA because the combination would improve the efficiency of AARA's systems by reducing dissipation of electrical current, (Ishigaki, Col. 2, lines 15-20).

- 5. As per claim 21, AARA Ishigaki disclose the invention substantially as rejected in claim 17 above, including the electrical switch further comprises a momentary push button switch mounted on an outer surface of a video display of the computer system (Ishigaki, see for example, Fig 2, item 3b).
- 6. As per claim 24, AARA Ishigaki disclose the invention substantially as rejected in claim 17 above, including responsive to a momentary actuation of the electrical switch, the seek logic is configured to command the power supply to power the radio module for a sufficient amount of time to allow the radio module to perform a wireless access seek function, and wherein the seek logic commands the radio module to perform a scan for available wireless access points responsive to the momentary actuation of the electrical switch (Ishigaki, Col. 4, lines 1-15).
- 7. As per claim 25, AARA Ishigaki disclose the invention substantially as rejected in claim 24 above, including a power supply enabled input signal, wherein the power supply enabled input signal is asserted to indicate that the notebook computer is

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powered-on (Ishigaki, Col. 4, lines 5-15, position data forwarding signal to communication means 3); and

wherein the seek logic is further configured to refrain from commanding the radio module to perform a scan for available wireless access points if the power supply input signal is asserted (Ishigaki, Col. 4, lines 10-25, where GPS tracking is turned off after position is obtained, and position data forwarding signal means to communication means 3).

8. As per claim 26, AARA – Ishigaki disclose the invention substantially as rejected in claim 17 above, including a method of finding wireless access points with a computing device, the method comprising:

requesting a wireless access seek with the computing device powered-off (Ishigaki, Col. 4, lines 1-2);

scanning for available wireless access points which support two-way data communication (AARA, pg 2, [0005-0006], where base station radio unit transmit/receives data to and from computer system's radio unit), the scanning with a wireless communication module of the portable computing device while remaining portions of the computing device are powered off (Ishigaki, Col. 4, lines 1-15 and lines 50-67); and

indicating the availability of wireless access points while the remaining portions of the computing device are powered off (Ishigaki, Col. 4, lines 60-65).

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- 9. As per claim 27-28, claims 27-28 are rejected for the same reasons as rejection to claims 17 and 24 above respectively.
- 10. As per claim 29, claims 29 are rejected for the same reasons as rejection to claims 17 above.
- 11. As per claim 30, AARA Ishigaki disclose the invention substantially as rejected in claim 26 above, including executing software in a microcontroller of a wireless communication module, and wherein the software controls various radio components in the wireless communication module (wherein the components in a mobile device are controlled by software, embedded, operating system or otherwise).
- 12. As per claim 32, AARA Ishigaki disclose the invention substantially as rejected in claim 17 above, including a computer comprising:

a main system processor (AARA, pg 2-3, [0007-0008], notebook computer.

Notebook computers inherently have a main system processor in order to perform the computing needs of the system);

a system main memory coupled to the processor (AARA, pg 2-3, [0007-0008], notebook computer. Notebook computers inherently have a main memory coupled to the main processor in order to perform the computing needs of the system);

a seek request button mounted on an outer surface of the computer (Ishigaki, Fig 2, item 3b);

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a seek logic coupled to seek request button (Ishigaki, Fig. 2, item 1 and 2);

a first power supply coupled to seek logic, and wherein the seek logic enables substantially only the first power supply responsive to assertion of the seek request button (Ishigaki, the power supply is inherent in the current invention, Col. 4, lines 1-15);

a wireless communication module coupled to seek logic and the first power supply, wherein the first power supply powers the wireless communication module, and wherein the seek logic enables the wireless communication module to perform seeking for wireless access points for network data communications, the seeking responsive to assertion of the seek request button (Ishigaki, Col. 4, lines 1-15);

a notification device coupled to the wireless module wherein the notification device indicates the unavailability of a wireless access point (Ishigaki, Col. 6, lines 10-20).

- 13. As per claim 34, AARA Ishigaki disclose the invention substantially as rejected in claim 32 above, including the seek logic refrains from enabling the wireless communication module to perform seeking for wireless access clients if the computer is powered-on (Ishigaki, Col. 7, lines 38-50).
- 14. As per claim 36, claim 36 is rejected for the same reasons as rejection to claim 17 above.

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15. As per claim 37, claim 37 is rejected for the same reasons as rejection to claim 17 above.

- 16. As per claim 38, AARA Ishigaki disclose the invention substantially as rejected in claim 36 above, including the means for controlling refrains from enabling the means for wireless network access to perform seeking for wireless access points if the computer system is powered-on (Ishigaki, Col. 7, lines 38-50);
- 17. As per claim 40, claim 40 is rejected for the same reasons as rejection to claims 17, 26, 32, 37 above.
- 18. As per claim 44, AARA Ishigaki disclose the invention substantially as rejected in claim 40 above, including the wireless communication module further comprises:

a microcontroller coupled to the seek request button and the system battery, and wherein the microcontroller is programmed to perform wireless access seeks responsive to assertion of the seek request button (Ishigaki, Col. 4, lines 1-15);

a plurality of radio circuits coupled to the microcontroller adapted to facilitate the microcontroller's wireless access seeks (Ishigaki, Col. 4, lines 1-15).

19. As per claim 45, claim 45 is rejected for the same reasons as rejection to claim17 above.

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20. As per claim 46, claim 46 is rejected for the same reasons as rejection to claim 26 above.

- 21. As per claim 47, claim 47 is rejected for the same reasons as rejection to claim 17 above.
- 22. As per claim 48, the claim is rejected for the same reason as combination of rejection to claims 17, 22, 34, and 38 above respectively.
- 23. As per claim 49-50, claims 49-50 are rejected for the same reasons as rejection to claim 17, 21 above respectively.
- 24. As per claim 53, AARA Ishigaki disclose the invention substantially as rejected in claim 17 above, including the radio module indicates the unavailability of a wireless access point while the computer system is powered off (Ishigaki, Col. 6, lines 10-20).
- 25. As per claim 54, AARA Ishigaki disclose the invention substantially as rejected in claim 17 above, including a computer system comprising:

a radio module that scans for available wireless access points that support twoway data communications (AARA, pg 2, [0005-0006], where base station radio unit transmit/receives data to and from computer system's radio unit);

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a power supply coupled to the radio module (power supply is inherent; AARA, pg 2-3, [0007-0008], scanning while powered on);

an electrical switch mounted on an external surface of the computer system (Ishigaki, Fig 2, item 3b); and

a seek logic coupled to the electrical switch and the power supply (Ishigaki, Fig 2, item 1 and 2);

wherein the seek logic commands the power supply to power the radio module responsive to the actuation of the electrical switch (Ishigaki, Col. 4, lines 1-15); and wherein the radio module scans for available wireless access points (Ishigaki, Col. 4, lines 1-15), and indicate the availability of a wireless access point, both before

the operating system of the computer system is booted (Ishigaki, Col. 4, lines 50-65).

- 26. As per claim 55, AARA Ishigaki disclose the invention substantially as rejected in claim 54above, including the radio module indicates the unavailability of a wireless access point before the operating system of the computer system is booted (Ishigaki, Col. 4, lines 50-65).
- 27. Claims 18-20, 31, 33, 39, 41-43, and 51-52 are rejected under 35 U.S.C. 103(a) as being unpatentable over AARA Ishigaki, as applied to claims 17, 26, 32, 36, 40, and 49 above, in view of what was well known in the art.

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As per claim 18, claim 18 is rejected for the same reasons as rejection to claim 28. 17 above.

Further, Official Notice is taken (see MPEP 2144.03) USB connection is well known and routinely used for plug and play devices at the time of the invention was made.

It would have been obvious to one of ordinary skill in the art to include USB port with AARA - Ishigaki because it would provide for an alternative way to detect wireless access points on a computer system. Moreover, Ishigaki teaches the notion of at least two modes of operation, one for full battery and other for power saving, both modes are capable of detection of wireless access points, thus there are plurality of methods of detecting for wireless access point is taught by this aspect of Ishigaki, and USB interface would simply be another way of detection for wireless access points.

As per claim 19, AARA - Ishigaki disclose the invention substantially as rejected 29. in claim 18 above, but do not explicitly teaches the notion of a light emitting diode (LED).

Official Notice is taken (see MPEP 2144.03) the concept and advantages of providing for LEDs are well known and expected in the art for notification purposes.

It would have been obvious to one of ordinary skill in the art to include the LEDs for notification purposes with Ishigaki because it would provide for a way of notifying the user. Further, Ishigaki teaches the notification step wherein the message of notification comes from the access point when the message forwarded to the client.

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As per claim 31, 33, 39, 41, 51, the claims are rejected for the same reasons as rejection to claim 19 above.

30. As per claim 42, claim 42 is rejected for the same reasons as rejection to claim 19 above.

Furthermore, the availability notification is taught by Ishigaki, see for example, Col. 4, lines 1-15.

31. As per claim 43, AARA – Ishigaki disclose the invention substantially as rejected in claim 40 above, do not explicitly teach a display device for displaying text messages indicative of the availability of wireless access.

Official Notice is taken (see MPEP 2144.03) displaying text messages indicating the availability is well known and routinely used for displaying purposes at the time of the invention was made.

It would have been obvious to the person of ordinary skill in the art at the time of the invention to display the retrieved access point information on the LCD of the mobile device, in order to inform the user of the information retrieved.

32. As per claim 20, claim 20 is rejected for the same reasons as rejection to claim 43 above.

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33. As per claim 52, claim 52 is rejected for the same reasons as rejection to claim 43 above.

- 34. Claims 22-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over AARA Ishigaki, as applied to claim 17 above, in view of "Sporty's JD-200 Transceiver Operator's Manual" (hereinafter Sporty), 1999.
- 35. As per claim 22, the claim is rejected for the same reasons as rejection to claim 17 above.

However, AARA – Ishigaki does not explicitly say "command for the same amount of time that the electrical switch is activated, thus requiring the user to hold electrical switch in the actuated position during a seek period of the media access controller"

Sporty teaches command for the same amount of time that the electrical switch is activated, thus requiring the user to hold electrical switch in the actuated position during a seek period of the media access controller (pg 2, "Frequency Search", 2nd paragraph, where scanning of frequencies is initiated by pressing and holding the Up or Down Key).

It would have been obvious to the person of ordinary skill in the art at the time of the invention to incorporate Sporty teaching with AARA – Ishigaki because the combination would improve the power distribution/consumption of AARA – Ishigaki's systems by utilizing only allocating a portion of the device power supply to certain device elements that are in use, leading to efficient power management (Sporty, pg 4

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and 5, power allocation table based on consumption ratio between the various system components). Additionally, supplying of power to only a section that needs power such as scanning radio frequency only in order to conserve power for a system.

36. As per claim 23, the claim is rejected for the same reasons as rejection to claim 25 above.

Response to Arguments

- 37. Applicant's arguments filed 04/24/06 have been fully considered but they are not persuasive.
 - a. In response to applicant's argument that the combination of Ishigaki and AARA changes the principle of operation of AARA and renders the intended purpose of AARA unsatisfactory, the test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981).
 - b. Applicant argues with regard to claims 17, 26, 40, 45, 49, and 54 that AARA-Ishigaki fails to teach "wherein the radio module scans for available access points...while the computer system is off". In response to applicant's argument, the position-measuring means of Ishigaki tracks satellites (Col. 4, lines

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8-14) while the system (i.e., communications means) is in a logical-off state (i.e., standby) (Col. 4, lines 48-55). The position-measuring means of Ishigaki calculates the position through information communicated with available GPS satellites. It is noted that the position-measuring means of Ishigaki must scan for available satellites (i.e., available wireless access points) before it is able to track such satellites. Furthermore, it is noted that the applicant defines a "powered-off" state of a computer to mean that the computer is not operational as far as a computer system user is concerned. Applicant goes on to state that while the computer is in the powered-off state, certain functions and circuits within the computer are still coupled to active power (i.e., powered). (See Specification pages 5-6, para. [0019]). In light of applicant's definition of "powered-off", when a system is in a standby or sleep state, the system is "powered-off".

c. Applicant argues with regard to claims 17, 26, 40, 45, 49, and 54 that AARA-Ishigaki fails to teach "a radio module that...indicates the availability...while the computer system is off". In response to applicant's argument, the position-measuring means of Ishigaki indicates a position (Col. 4, lines 8-14) while the system (i.e., communications means) is in a standby state (Col. 4, lines 48-55). By indicating the position, the position-measuring means indirectly indicates the availability of satellites (i.e., wireless access points). Without available satellites, the system would not have been able to measure the position. Furthermore, it is noted that the applicant defines a "powered-off" state of a computer to mean that the computer is not operational as far as a computer

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system user is concerned. Applicant goes on to state that while the computer is in the powered-off state, certain functions and circuits within the computer are still coupled to active power (i.e., powered). (See Specification pages 5-6, para. [0019]). In light of applicant's definition of "powered-off", when a system is in a standby or sleep state, the system is "powered-off".

- d. Applicant argues with regard to claim 32 that the position measuring means of Ishigaki is not used. In response to applicant's argument, it is noted that such a limitation is not recited in the rejected claim.
- e. Applicant argues with regard to claim 36 that AARA-Ishigaki fails to teach "wherein the first means for powering powers substantially only the means for wireless network access". In response to applicant's argument, the power system of Ishigaki is able to power only specific portions of the system. In this case, the power system powers the position-measuring means while keeping the remaining portions of the system in a dormant state. The remaining portion of the system (i.e., communications means) remains in a standby state (Col. 4, lines 48-55). It is noted that the applicant defines a "powered-off" state of a computer to mean that the computer is not operational as far as a computer system user is concerned. Applicant goes on to state that while the computer is in the powered-off state, certain functions and circuits within the computer are still coupled to active power (i.e., powered). (See Specification pages 5-6, para. [0019]). In light of applicant's definition of "powered-off", when a system is in a standby or sleep state, the system is "powered-off".

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f. Applicant argues with regard to claim 22 that AARA-Ishigaki-Sporty fails to teach "the command for the same amount of time that the electrical switch is activated, thus requiring the user to hold electrical switch in the actuated position during a seek period of the media access controller". In response to applicant's argument, the command referred to in claim 22 is not a command to scan, but a command to power the seek logic in the system. In Sporty, the actuating of the switch initiates the scan process, which includes counting the one or two seconds prior to scanning. Therefore the logic in Sporty will be powered for the exact amount of time that the switch is actuated.

Conclusion

38. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the 39. examiner should be directed to Julian Chang whose telephone number is (571) 272-8631. The examiner can normally be reached on Monday thru Friday 8am to 4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bunjob Jaroenchonwanit can be reached on (571) 272-3913. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JC

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